

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/854,280

DATE: 07/17/2001

TIME: 09:07:57

Input Set : A:\P1381R1C2\_Sequence\_Listing.wpd

Output Set: N:\CRF3\07172001\I854280.raw

ENTERED

3 <110> APPLICANT: Chen, Jian  
4 Filvaroff, Ellen  
5 Goddard, Audrey  
6 Gurney, Austin  
7 Li, Hanzhong  
8 Wood, William I.  
10 <120> TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
12 <130> FILE REFERENCE: P1381R1C2  
14 <140> CURRENT APPLICATION NUMBER: US 09/854,280  
15 <141> CURRENT FILING DATE: 2001-05-10  
17 <150> PRIOR APPLICATION NUMBER: US 09/311,832  
18 <151> PRIOR FILING DATE: 1999-05-14  
20 <150> PRIOR APPLICATION NUMBER: US 60/085,579  
21 <151> PRIOR FILING DATE: 1998-05-15  
23 <150> PRIOR APPLICATION NUMBER: US 60/113,621  
24 <151> PRIOR FILING DATE: 1998-12-23  
26 <160> NUMBER OF SEQ ID NOS: 26  
28 <210> SEQ ID NO: 1  
29 <211> LENGTH: 180  
30 <212> TYPE: PRT  
31 <213> ORGANISM: Homo sapiens  
33 <400> SEQUENCE: 1  
34 Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile  
35 1 5 10 15  
37 Phe Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg Lys  
38 20 25 30  
40 Gly Gln Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln Val  
41 35 40 45  
43 Pro Leu Asp Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu  
44 50 55 60  
46 Glu Tyr Glu Arg Asn Ile Glu Glu Met Val Ala Gln Leu Arg Asn  
47 65 70 75  
49 Ser Ser Glu Leu Ala Gln Arg Lys Cys Glu Val Asn Leu Gln Leu  
50 80 85 90  
52 Trp Met Ser Asn Lys Arg Ser Leu Ser Pro Trp Gly Tyr Ser Ile  
53 95 100 105  
55 Asn His Asp Pro Ser Arg Ile Pro Val Asp Leu Pro Glu Ala Arg  
56 110 115 120  
58 Cys Leu Cys Leu Gly Cys Val Asn Pro Phe Thr Met Gln Glu Asp  
59 125 130 135  
61 Arg Ser Met Val Ser Val Pro Val Phe Ser Gln Val Pro Val Arg  
62 140 145 150  
64 Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly Pro Cys Arg Gln  
65 155 160 165  
67 Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr Cys Ile Phe  
68 170 175 180  
70 <210> SEQ ID NO: 2

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/854,280

DATE: 07/17/2001

TIME: 09:07:57

Input Set : A:\P1381R1C2\_Sequence\_Listing.wpd

Output Set: N:\CRF3\07172001\I854280.raw

71 &lt;211&gt; LENGTH: 687

72 &lt;212&gt; TYPE: DNA

73 &lt;213&gt; ORGANISM: Homo sapiens

75 &lt;400&gt; SEQUENCE: 2

```

76 aggcgggcag cagctgcagg' ctgaccttgc agcttggcgg aatggactgg 50
78 cctcacaacc tgctgtttct tcttaccatt tccatcttcc tggggctggg 100
80 ccagcccagg agcccaaaaa gcaagaggaa ggggcaaggg cggcctgggc 150
82 ccctggcccc tggccctcac caggtgccac tggacctggt gtcacggatg 200
84 aaaccgtatg cccgcatgga ggagtatgag aggaacatcg aggagatggt 250
86 ggcccagctg aggaacagct cagagctggc ccagagaaag tgtgagggtca 300
88 acttgacagct gtggatgtcc aacaagagga gcctgtctcc ctggggctac 350
90 agcatcaacc acgaccccag cegtatcccc gtggacctgc cggaggcacg 400
92 gtgcctgtgt ctgggctgtg tgaacccctt caccatgcag gaggaccgca 450
94 gcatggtgag cgtgccgggtg ttcagccagg ttctgtgctg ccgcgcctc 500
96 tgcccgccac cgccccgcac agggccttgc cgccagcgcg cagtcattga 550
98 gaccatcgct gtgggctgca cctgcatctt ctgaatcacc tggcccagaa 600
100 gccaggccag cagcccagaga ccactctctt tgcacctttg tgccaagaaa 650
102 ggctatgaa aagtaaacac tgacttttga aagcaag 687

```

104 &lt;210&gt; SEQ ID NO: 3

105 &lt;211&gt; LENGTH: 197

106 &lt;212&gt; TYPE: PRT

107 &lt;213&gt; ORGANISM: Homo sapiens

109 &lt;400&gt; SEQUENCE: 3

```

110 Met Thr Leu Leu Pro Gly Leu Leu Phe Leu Thr Trp Leu His Thr
111   1           5           10           15
113 Cys Leu Ala His His Asp Pro Ser Leu Arg Gly His Pro His Ser
114           20           25           30
116 His Gly Thr Pro His Cys Tyr Ser Ala Glu Glu Leu Pro Leu Gly
117           35           40           45
119 Gln Ala Pro Pro His Leu Leu Ala Arg Gly Ala Lys Trp Gly Gln
120           50           55           60
122 Ala Leu Pro Val Ala Leu Val Ser Ser Leu Glu Ala Ala Ser His
123           65           70           75
125 Arg Gly Arg His Glu Arg Pro Ser Ala Thr Thr Gln Cys Pro Val
126           80           85           90
128 Leu Arg Pro Glu Glu Val Leu Glu Ala Asp Thr His Gln Arg Ser
129           95          100          105
131 Ile Ser Pro Trp Arg Tyr Arg Val Asp Thr Asp Glu Asp Arg Tyr
132          110          115          120
134 Pro Gln Lys Leu Ala Phe Ala Glu Cys Leu Cys Arg Gly Cys Ile
135          125          130          135
137 Asp Ala Arg Thr Gly Arg Glu Thr Ala Ala Leu Asn Ser Val Arg
138          140          145          150
140 Leu Leu Gln Ser Leu Leu Val Leu Arg Arg Arg Pro Cys Ser Arg
141          155          160          165
143 Asp Gly Ser Gly Leu Pro Thr Pro Gly Ala Phe Ala Phe His Thr
144          170          175          180
146 Glu Phe Ile His Val Pro Val Gly Cys Thr Cys Val Leu Pro Arg
147          185          190          195

```

RAW SEQUENCE LISTING                      DATE: 07/17/2001  
PATENT APPLICATION: US/09/854,280              TIME: 09:07:57

Input Set : A:\P1381R1C2\_Sequence\_Listing.wpd  
Output Set: N:\CRF3\07172001\I854280.raw

```
149 Ser Val
152 <210> SEQ ID NO: 4
153 <211> LENGTH: 1047
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 4
158 gccaggtgtg caggccgctc caagcccagc ctgccccgct gccgccacca 50
160 tgacgtctct ccccgccctc ctgtttctga cctggctgca cacatgcctg 100
162 gccaccatg acccctccct cagggggcac cccacagtc acggtacccc 150
164 acactgctac tcggtgagg aactgccct cggccaggcc cccccacacc 200
166 tgctggctcg aggtgccaaag tgggggcagg ctttgctgt agccctggtg 250
168 tccagcctgg aggcagcaag ccacagggg aggcacgaga ggccctcagc 300
170 tacgaccag tgcccgggtg tcgggccgga ggaggtgttg gaggcagaca 350
172 cccaccagcg ctccatctca ccctggagat accgtgtgga cacggatgag 400
174 gaccgctatc cacagaagct ggccttcgcc gagtgcctgt gcagaggctg 450
176 tatcgatgca cggacgggcc gcgagacagc tgcgctcaac tccgtgcggc 500
178 tgctccagag cctgctggtg ctgcgccgcc ggccctgctc ccgcgacggc 550
180 tcggggctcc ccacacctgg ggcctttgcc ttccacacc agttcatcca 600
182 cgtccccgtc ggtgcacct gcgtgctgcc ccgttcagtg tgaccgccga 650
184 ggccgtgggg cccctagact ggacacgtgt gctccccaga gggcaccccc 700
186 tatttatgtg tatttattgt tatttatatg cctcccccaa cactaccctt 750
188 ggggtctggg cattccccgt gtctggagga cagcccccca ctgttctct 800
190 catctccagc ctcagtagtt gggggtagaa ggagctcagc acctcttcca 850
192 gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggctc 900
194 cctgtcctgc tcccggcttc ccttacccta tcaactggct caggccccgc 950
196 aggtgcctc tcccaacct ccttgaagt accctgttt cttaacaat 1000
198 tatttaagtg tacgtgtatt attaaactga tgaacacatc cccaaaa 1047
200 <210> SEQ ID NO: 5
201 <211> LENGTH: 830
202 <212> TYPE: DNA
203 <213> ORGANISM: Homo sapiens
205 <220> FEATURE:
206 <221> NAME/KEY: unsure
207 <222> LOCATION: 105-115
208 <223> OTHER INFORMATION: unknown base
210 <400> SEQUENCE: 5
211 ggcagcaggg accaagagag gcacgcttgc ctttttatga catcagagct 50
213 cctggttctt gctccttggg actctgggac ttacaccagt ggcaccctg 100
215 gctcnnnnnn nnnnnaattc ggtacgaggc tggggttcag gcgggcagca 150
217 gctgcaggct gacctgcag cttggcggaa tggactggcc tcacaacctg 200
219 ctgtttcttc ttaccatttc catcttctg gggctgggcc agcccaggag 250
221 cccaaaagc aagaggaagg ggcaaggcg gcctgggcc ctggtccctg 300
223 gccctacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350
225 cgcatggagg agtatgagag gaacatcgag gagatgttgg ccagctgag 400
227 gaacagttca gagctggccc agagaaagt tgaggtcaac ttgcagctgt 450
229 ggatgtocaa caagaggagc ctgtctccct ggggctacag catcaaccac 500
231 gaccccagcc gtatccccgt ggacctcgg aggcacggtg cctgtgtctg 550
233 ggcttgtgtg aaccttcca ccatgcagga ggaccgcagc atggtgagcg 600
235 tgccggtgtt cagccaggtt cctgtgcgcc gccgcctctg cccgccaccg 650
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/854,280

DATE: 07/17/2001

TIME: 09:07:57

Input Set : A:\P1381R1C2\_Sequence\_Listing.wpd

Output Set: N:\CRF3\07172001\I854280.raw

237 ccccgacacag ggccttgccg ccagcgcgca gtcattggaga ccatcgctgt 700  
239 gggctgcacc tgcattttct gaatcgacct ggcccagaag ccaggccagc 750  
241 agcccgagac catcctcctt gcacctttgt gccaagaaag gcctatgaaa 800  
243 agtaaacact gacttttgaa agcaaaaaaa 830  
245 <210> SEQ ID NO: 6  
246 <211> LENGTH: 397  
247 <212> TYPE: DNA  
248 <213> ORGANISM: Homo sapiens  
250 <220> FEATURE:  
251 <221> NAME/KEY: unsure  
252 <222> LOCATION: 10, 150, 267  
253 <223> OTHER INFORMATION: unknown base  
255 <400> SEQUENCE: 6

W--> 256 aggggggcan agctgcaggc tgaccttgca gcttggcgga atggactggc 50  
258 ctcacaacct gctgtttctt ctaccattt ccatcttctt ggggctgggc 100  
W--> 260 agccaggagc cccaaaagca agaggaagg gcaagggcgg cctgggccc 150  
262 tggcctggcc tcaccagggt cactggacc tgggtgcacg gatgaaaccg 200  
264 tatgccgca tggaggagta tgagaggaac atcgaggaga tggtgccca 250  
W--> 266 gctgaggaac agctcanaag ctggcccaga gaaagtgtga ggtcaacttg 300  
268 cagctgtgga tgtccaacaa gaaggagcct gtctcccttg gggctacaag 350  
270 catcaaccac cgaccccgac cgtatccccg tgggaccttg ccgggac 397

272 <210> SEQ ID NO: 7  
273 <211> LENGTH: 230  
274 <212> TYPE: DNA  
275 <213> ORGANISM: Homo sapiens  
277 <400> SEQUENCE: 7  
278 caccgatgag gaccgctatc cacagaagct ggccttcgcc gactgcctgt 50  
280 gcagaggctg tatcgatgca cggacgggcc gcgagacagc tgcgtcaac 100  
282 tccgtgcggc tgcctcagag cctgctggtg ctgcgcgcc gccctgtct 150  
284 ccgcgacggc tgggggtccc ccacacctgg ggcctttgcc ttccacaccg 200  
286 agttcatcca cgtccccgtc ggtgcacct 230

288 <210> SEQ ID NO: 8  
289 <211> LENGTH: 24  
290 <212> TYPE: DNA  
291 <213> ORGANISM: Artificial sequence  
293 <220> FEATURE:  
294 <223> OTHER INFORMATION: Forward PCR primer  
296 <400> SEQUENCE: 8

297 atccacagaa gctggccttc gccg 24

299 <210> SEQ ID NO: 9  
300 <211> LENGTH: 24  
301 <212> TYPE: DNA  
302 <213> ORGANISM: Artificial sequence  
304 <220> FEATURE:  
305 <223> OTHER INFORMATION: reverse PCR primer  
307 <400> SEQUENCE: 9

308 gggacgtgga tgaactcggg gtgg 24

310 <210> SEQ ID NO: 10

311 <211> LENGTH: 40

## RAW SEQUENCE LISTING

DATE: 07/17/2001

PATENT APPLICATION: US/09/854,280

TIME: 09:07:57

Input Set : A:\P1381R1C2\_Sequence\_Listing.wpd

Output Set: N:\CRF3\07172001\I854280.raw

312 <212> TYPE: DNA  
313 <213> ORGANISM: Artificial sequence  
315 <220> FEATURE:  
316 <223> OTHER INFORMATION: hybridization probe  
318 <400> SEQUENCE: 10  
319 tatccacaga agctggcctt cgccgagtgct ctgtgcagag 40  
321 <210> SEQ ID NO: 11  
322 <211> LENGTH: 155  
323 <212> TYPE: PRT  
324 <213> ORGANISM: Homo sapiens  
326 <400> SEQUENCE: 11  
327 Met Thr Pro Gly Lys Thr Ser Leu Val Ser Leu Leu Leu Leu Leu  
328 1 5 10 15  
330 Ser Leu Glu Ala Ile Val Lys Ala Gly Ile Thr Ile Pro Arg Asn  
331 20 25 30  
333 Pro Gly Cys Pro Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val  
334 35 40 45  
336 Met Val Asn Leu Asn Ile His Asn Arg Asn Thr Asn Thr Asn Pro  
337 50 55 60  
339 Lys Arg Ser Ser Asp Tyr Tyr Asn Arg Ser Thr Ser Pro Trp Asn  
340 65 70 75  
342 Leu His Arg Asn Glu Asp Pro Glu Arg Tyr Pro Ser Val Ile Trp  
343 80 85 90  
345 Glu Ala Lys Cys Arg His Leu Gly Cys Ile Asn Ala Asp Gly Asn  
346 95 100 105  
348 Val Asp Tyr His Met Asn Ser Val Pro Ile Gln Gln Glu Ile Leu  
349 110 115 120  
351 Val Leu Arg Arg Glu Pro Pro His Cys Pro Asn Ser Phe Arg Leu  
352 125 130 135  
354 Glu Lys Ile Leu Val Ser Val Gly Cys Thr Cys Val Thr Pro Ile  
355 140 145 150  
357 Val His His Val Ala  
358 155  
360 <210> SEQ ID NO: 12  
361 <211> LENGTH: 408  
362 <212> TYPE: PRT  
363 <213> ORGANISM: Artificial Sequence  
365 <220> FEATURE:  
366 <223> OTHER INFORMATION: IL17B-Fc fusion  
368 <400> SEQUENCE: 12  
369 Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile  
370 1 5 10 15  
372 Phe Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg Lys  
373 20 25 30  
375 Gly Gln Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln Val  
376 35 40 45  
378 Pro Leu Asp Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu  
379 50 55 60  
381 Glu Tyr Glu Arg Asn Ile Glu Glu Met Val Ala Gln Leu Arg Asn

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/854,280

DATE: 07/17/2001

TIME: 09:07:58

Input Set : A:\P1381R1C2\_Sequence\_Listing.wpd

Output Set: N:\CRF3\07172001\I854280.raw

L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6